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Fischer et al.

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(54) **LUMEN RE-ENTRY SYSTEM AND METHOD**

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See application file for complete search history.

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(57)

ABSTRACT

A lumen re-entry system includes a helically wound coil having open proximal and distal ends, and defining a longitudinal movement axis. The helically wound coil includes a distal segment that is relaxed relative to a proximal segment. A tip deflection wire is attached to the relaxed distal segment and coaxially disposed relative to the helically wound coil. Movement of the tip deflection wire moves the lumen re-entry system from an advancement configuration in which the open distal end of the helically wound coil is substantially aligned with the longitudinal movement axis to a deflected configuration. The lumen re-entry system also includes a puncture wire slidably received within the helically wound coil and having a distal puncture tip.

13 Claims, 3 Drawing Sheets

